

FIG. 1

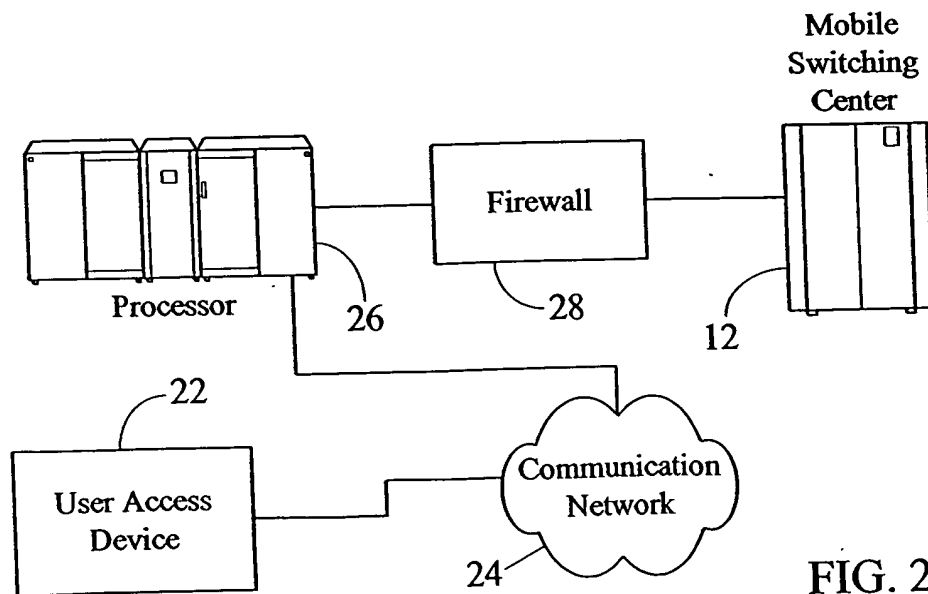


FIG. 2

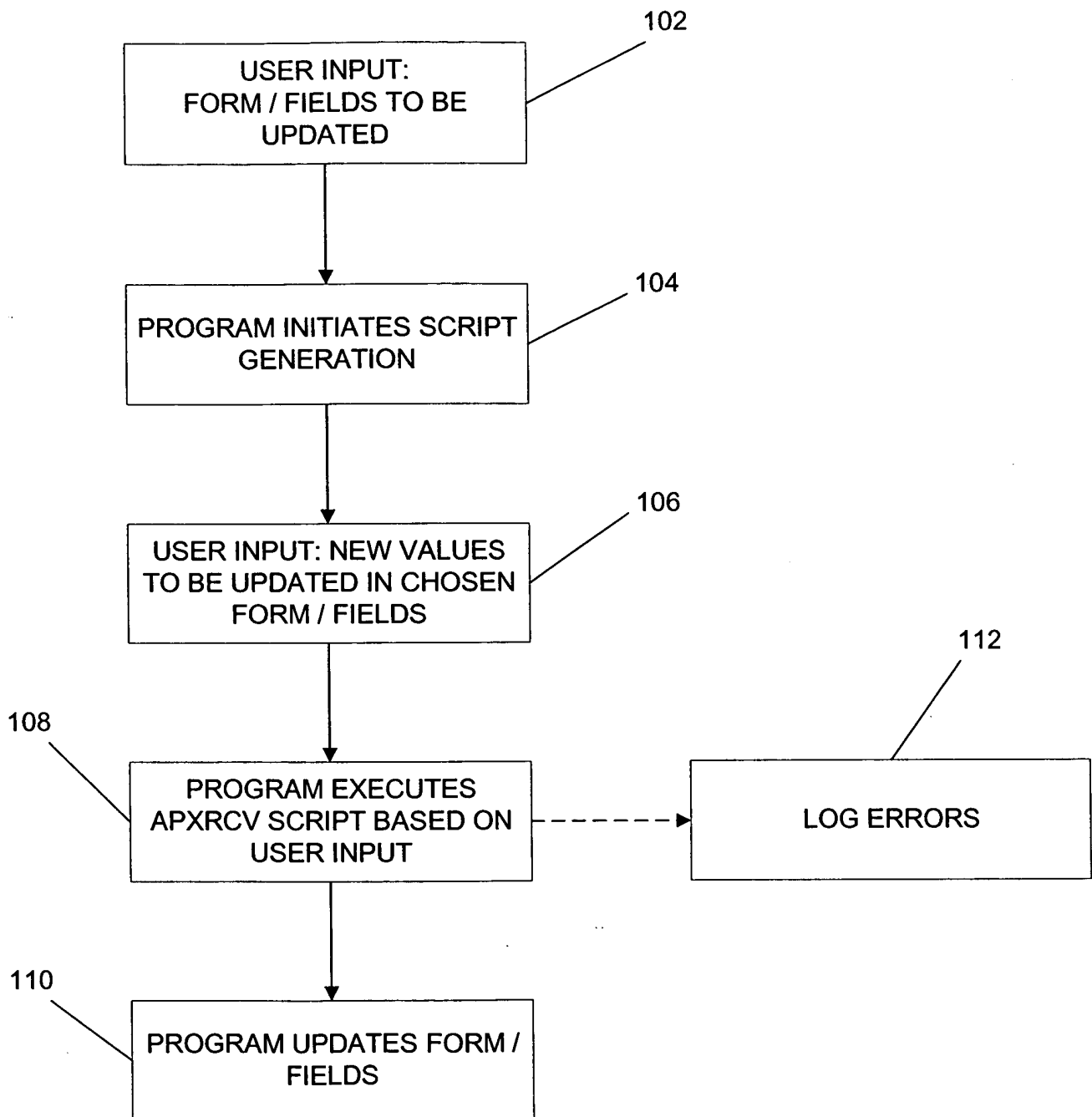


FIG. 3

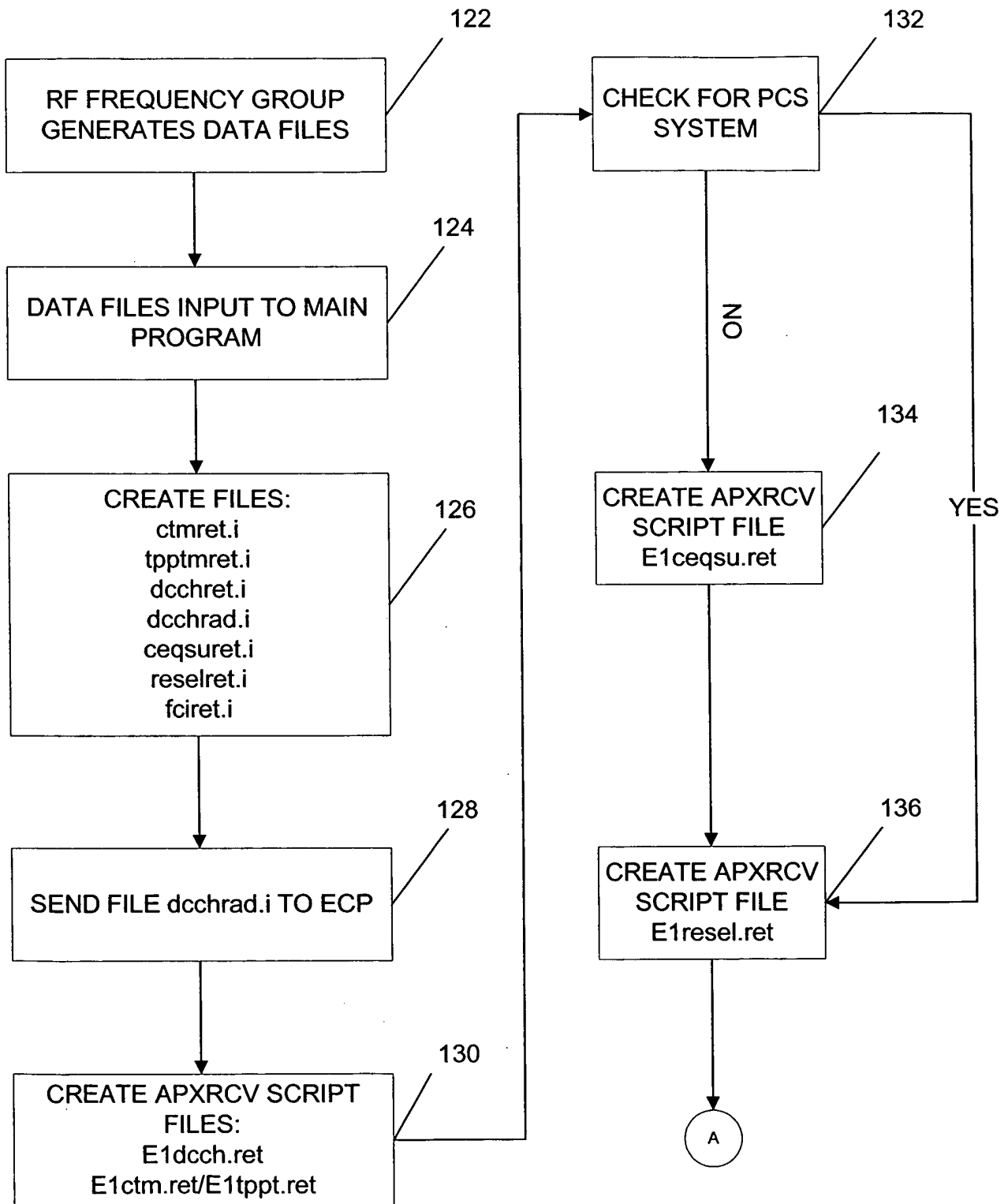


FIG. 4A

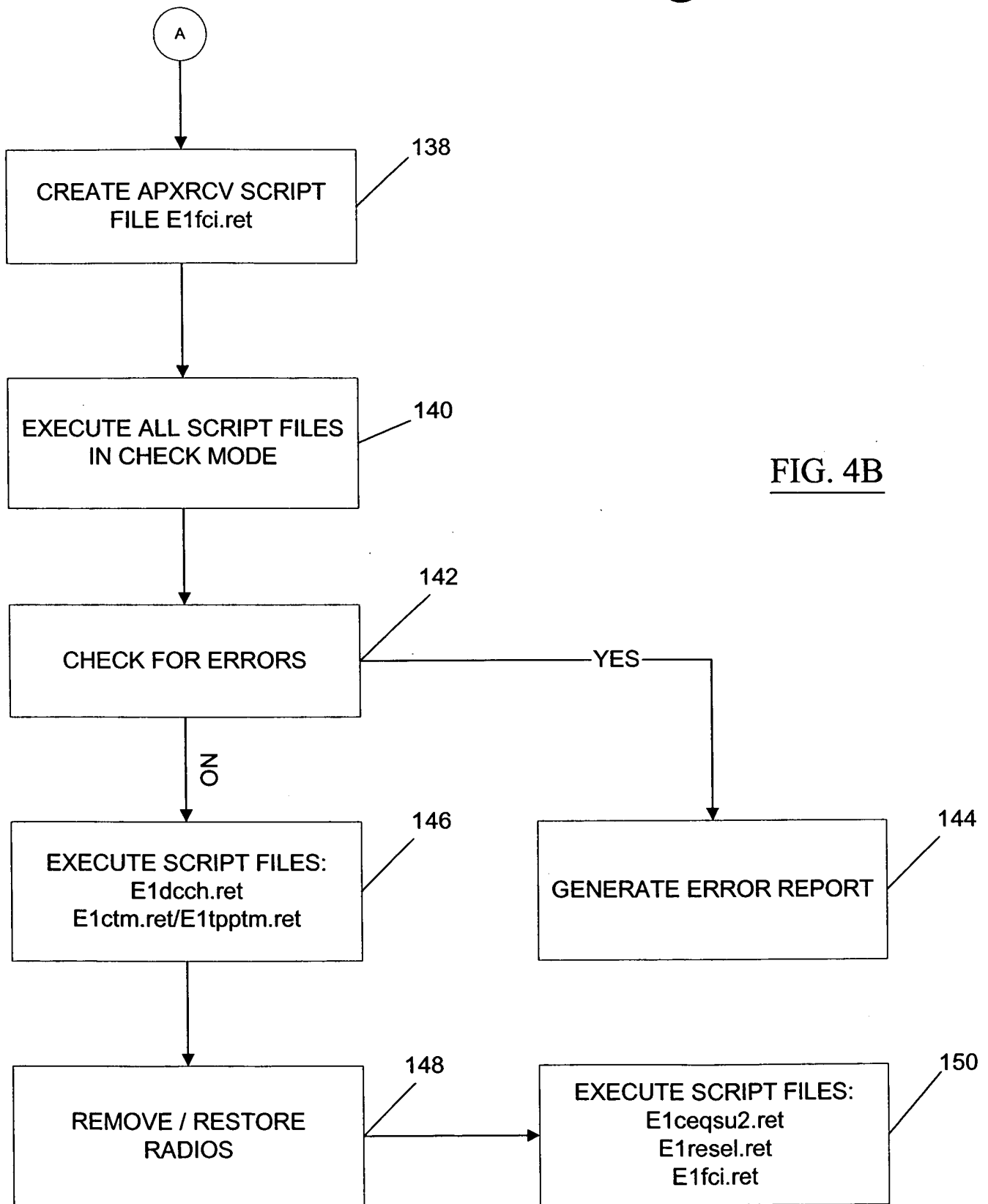


FIG. 4B

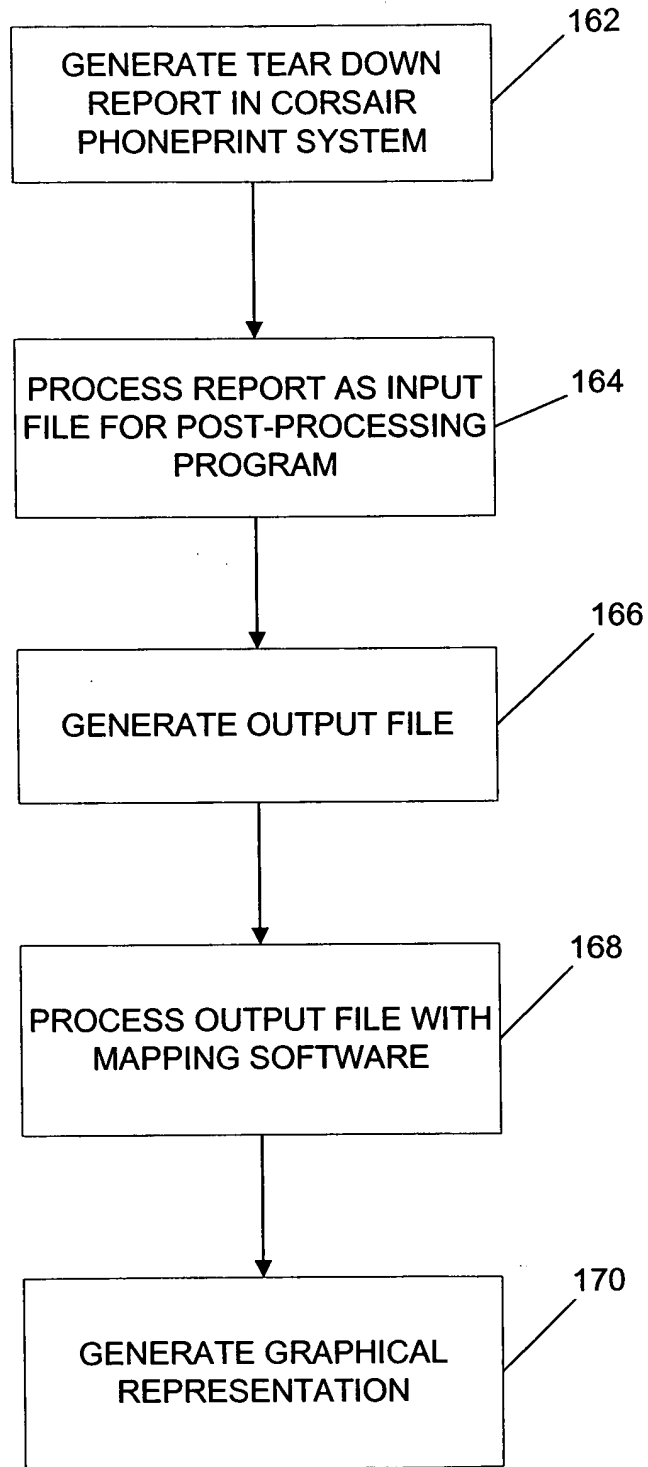


FIG. 5

>pg pp9912.txt

Date	Time(2)	Site_ID	MIN(1)	Dialed_Digits	Tear-Down_Reason	
12/25/99	19:26:09		20	2012075854	12014981322	MFG
12/23/99	14:56:20		219	2012075854	5617767114	MFG
12/26/99	21:40:32		167	2012130072	19547814445	MFG
12/23/99	19:06:49		82	2012134416	9544289147	MFG
12/23/99	19:06:23		82	2012134416	9544289147	MFG
12/25/99	17:23:55		82	2012134416	9544285083	MFG
12/25/99	15:06:20		82	2012134416	2015680907	MFG
12/25/99	13:04:16		82	2012134416	2015680907	MFG
12/25/99	13:04:05		82	2012134416	2015680907	MFG
12/25/99	13:03:53		82	2012134416	2015680907	MFG
12/25/99	13:03:31		82	2012134416	2015680907	MFG
12/25/99	13:01:49		82	2012134416	2015680907	MFG
12/25/99	12:53:38		82	2012134416	2015680907	MFG
12/25/99	12:52:32		82	2012134416	2015680907	MFG
12/25/99	12:52:03		82	2012134416	2015680907	MFG
12/25/99	12:50:48		82	2012134416	2015680907	MFG
12/25/99	12:48:15		82	2012134416	2015680907	MFG
12/25/99	12:47:16		82	2012134416	5680907	MFG
12/24/99	11:58:50		82	2012134416	8003328463	MFG
12/24/99	11:58:08		82	2012134416	8003328463	MFG
12/24/99	10:03:16		82	2012134416	9544289147	MFG
12/22/99	14:58:09		80	2012300764	19546467166	MFG
12/29/99	10:54:28		177	2012400657	19086881800	MFG
12/29/99	10:51:49		177	2012400657	9412503698	MFG
12/29/99	10:25:04		145	2012400657	12012400657	MFG
12/29/99	10:24:42		145	2012400657	12012400657	MFG
12/27/99	21:26:01		49	2012476225	15616551115	MFG
12/24/99	19:22:48		219	2012476225	15615551212	MFG
12/24/99	19:22:26		219	2012476225	15615551212	MFG
12/24/99	19:22:06		219	2012476225	15615551212	MFG
12/24/99	19:13:38		219	2012476225	5617950022	MFG
12/27/99	12:01:06		20	2012476225	15614996976	MFG
12/23/99	16:23:47		12	2012640686	3105152822	MFG
12/23/99	16:17:19		12	2012640686	3105152822	MFG
12/23/99	16:17:03		12	2012640686	3105152822	MFG

FIG. 6

[illegible]

4,1,-80,1675,26,155278,148

1,6, -80.171667, 26.36, 675

1,6,-80.171667,26.36,675

1,7,-80.114167,26.562778,173

1,8,-80.109722,26.760556,76

3,9,-80.317222,25.679444,311

3,10,-80.266667,25.747222,115

4, 12, -80, 29, 26, 183333, 268

3, 13, -80.422778, 25.526111, 164

4, 15, -80, 123056, 25, 854167, 510

4,16,-80,198611,26.248889,401

1,18,-80.088889,26.45,380

1,20,-80.058611,26.651944,216

4.22. -80.210833, 25.848611, 138

4.23, -80.128889, 26.085833, 844

4,25,-80.288889,25.845556,55

1.26, -80.201111, 26.630833, 251

4,27,-80.204722,25.93,590

3,28,-80.360833,25.596667,255

3,29,-80.333889,25.649444,584

4,30,-80.415,26.086389,207

4,31,-80.175833,26.121944,128

1,37.-80.681389,26.686667,213

4,40,-80.36444,25.828333,156

4,42, -80.286944, 25.920556, 147

4,43,-80.168056,26.024722,333

3,46,-80.129167,25.793611,2694

3.47, -80.238611, 25.811389, 121

1.49, -80.051667, 26.711944, 381

4,50,-80.160556,25.908611,187

4,52,-80.26,26.121667,456

4,53,-80.105556,26.136389,501

3.54,-80.383333,25.653056,81

4.55, -80.249444, 26.268333, 314

3.56, -80.294722, 25.703889, 184

3,57,-80.315,25.808333,21

3,58,-80.265278,25.788333,267

4.60,-80.25,25.891667,205

4,61,-80.090833,26.230278,147

4,64,-80.211667,26.0175,595

**FIG. 7**





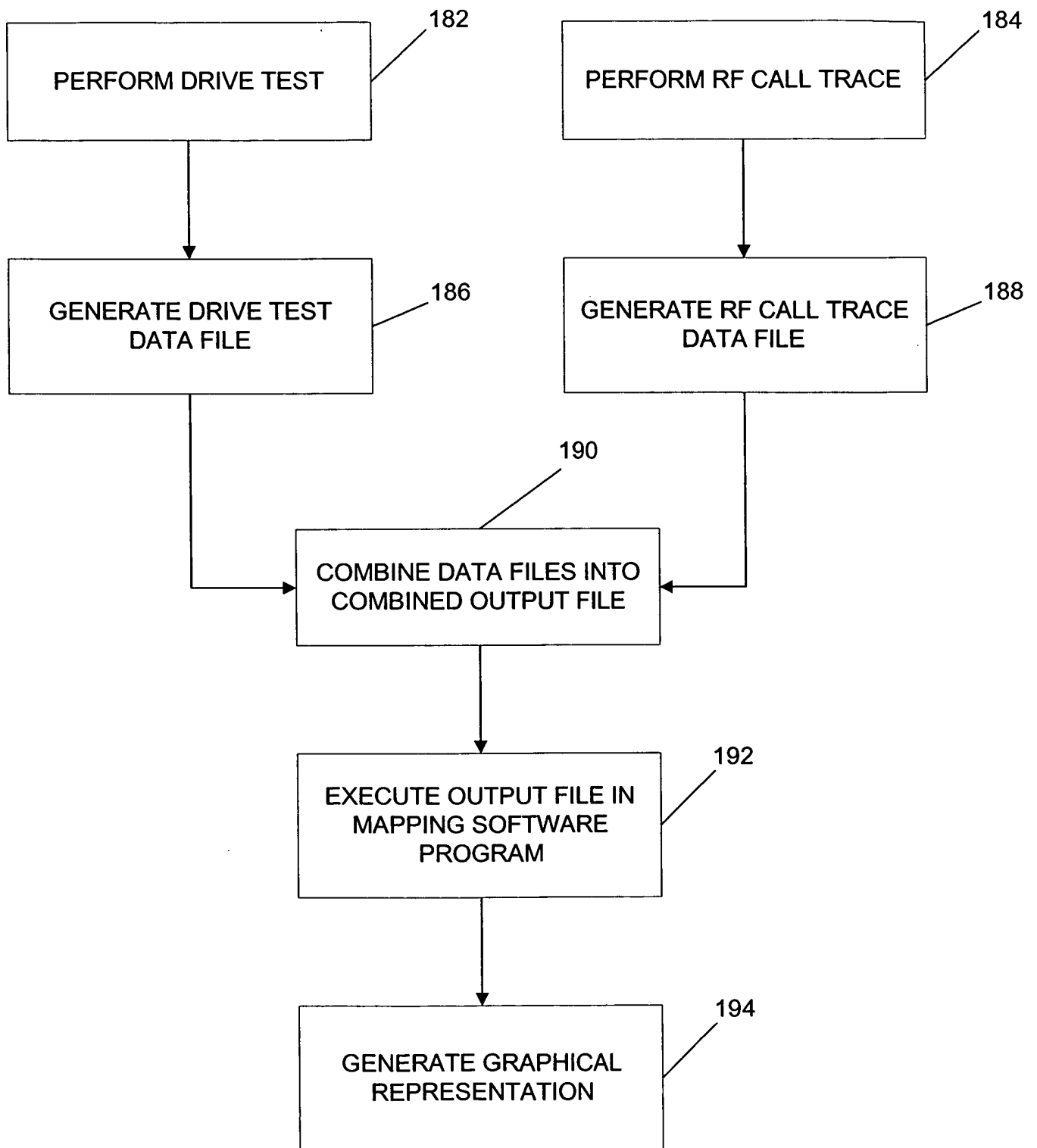


FIG. 9

SAMPLE Ericsson log

MOBILE TELEPHONY CELL TRAFFIC RECORDING  
DIGITAL SIGNAL STRENGTH MEASUREMENTS

MSNB	CELL	DEV	SSFVC	SSRVC
9412580201	T017C	MDVC-1060	23	20
SSSTDRVC	BERFVC	BERRVC	RBERRVC	FERRVC
6	3	2	2	0
BQRVC	TDRVC	FREQERR	TIMEALIGN	MSPOW
15	0	1	0	2
NCELL	NSSFFMC	MEASCHAN	VIND	
T017A	5	1260	Y	
T017B	23	1272	Y	
T006B	17	1300	Y	
T016B	13	1305	Y	
T004A	29	1251	Y	
T005B	33	1302	Y	
T005A	23	1290	Y	
T018A	21	1294	Y	
T154B	21	1303	Y	
TIME	PRINTIND	FCODE		
11:08:27	0			

END

MOBILE TELEPHONY CELL TRAFFIC RECORDING CANDIDATE LIST FOR  
HANDOFF

MSNB	CELL	TIME	FCODE	URGENCY
9412580201	T017C	11:08:27		0
CANDCELL	CELLTYPE	NTYPE	RATING	
T005B	0	STD		0

END

FIG. 10

.....

7/30/99,11:08:27,-

82,3321883,27.9813839,9,40.3,86.9,G8,5,Conversation,1218,-

93 D 3 V 3 5 2 0 87 3 0 0 ..... 14, 15, -100, 0, 8, ..., 1, Neig, 9, 1284, -

89, 1302, -93, 1300, -103, 1255, -107, 1317, -109, 1303, -109, 1314, -111, 1305, -

**111.1315,-**

**111,1315,-**

7/30/99,10:52:47,-

82.3321883,27.9813839,9,40.3,86.9,G8,5,Conversation,1218,-

93, p. 3, v. 3, 5, 2, 0.84, 3, 0, 0, . . . . . 14, 15, -100, 0.8, . . . 1, Neig, 9, 1284, -

89,1302,-93,1300,-103,1303,-107,1255,-109,1314,-111,1317,-111,1305,-

**111,1315,-**

**111,1315,-**

7/30/99,10:52:48,-

82.3319553,27.9813947,10,43.1,87.0,G8,5,Conversation,1218,-

93. D. 3, V. 3, 5, 2, 0.84, 3, 0, 0, . . . . . -10, 38, -137, 0, 8, . . . 1, Neig. 9, 1284, -

89.1302,-93.1300,-103,1303,-107,1255,-109,1314,-111,1317,-111,1305,-

**111,1315,-**

**111,1315,-**

7/30/99, 10:52:48, -

82.3319553,27.9813947,10,43.1,87.0,G8,5,Conversation,1218,-

95, p. 3, v. 3, 5, 2, 0, 99, 3, 0, 0, . . . . . -10, 38, -137, 0, 8, . . . 1, Neig, 9, 1284, -

83,1302,-93,1300,-101,1303,-105,1255,-109,1305,-111,1314,-113,1315,-

**113,1317,-**

[illegible]

7/30/99, 10:52:49, -

82.3317164,27.9814044,10,44.7,87.2,G8,5,Conversation,1218,-

95.D.3.V.3.5,2,0.99,3,0,0,.....,-10,38,-137,0,8,...,1.Neig,9,1284,-

83,1302,-93,1300,-101,1303,-105,1255,-109,1305,-111,1314,-113,1315,-

**113,1317,-**

[illegible]

FIG. 11A

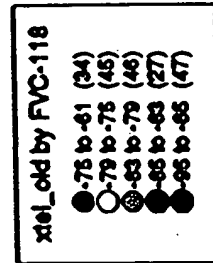
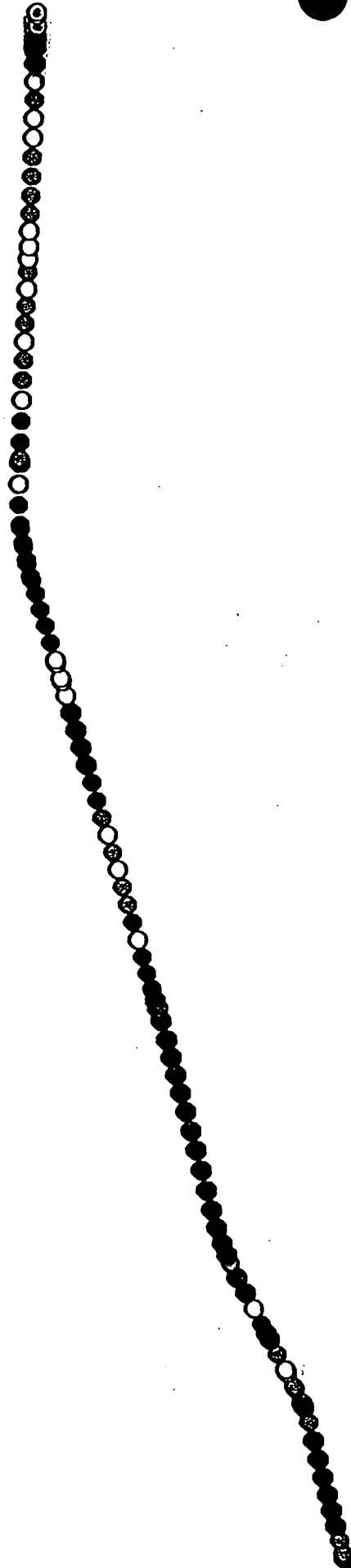
FT  
--

R, RBER, FER, BQ, TD, FREQ, TIME, MS, PRINT  
DEV, FVC, RVC, TDRV, FVC, RVC, RVC, RVC, RVC, RVC, ERR, ALIG

28.0069725,9412580201,T017C,MDVC-  
15,0,1,0,2,0  
28.0069725,9412580201,T017C,MDVC-  
15,0,1,0,2,0  
28.0069856,9412580201,T017C,MDVC-  
15,0,2,0,2,1  
28.0069856,9412580201,T017C,MDVC-  
15,0,2,0,2,1  
28.0070392,9412580201,T005B,MDVC-  
2,0,4,0,2,1  
28.0072014,9412580201,T005B,MDVC-  
7,0,4,0,2,1  
28.0072014,9412580201,T005B,MDVC-  
7,0,4,0,2,1  
28.0073900,9412580201,T005B,MDVC-  
8,0,3,0,2,1  
28.0073900,9412580201,T005B,MDVC-  
8,0,3,0,2,1  
28.0075761,9412580201,T005B,MDVC-  
7,0,5,0,2,1  
28.0075761,9412580201,T005B,MDVC-  
7,0,5,0,2,1  
992,9412580201,T005B

FIG. 11B

FIG. 12



Comarco File

13:20:00.8,26.677,-81.567  
13:20:01.2,25.230,-81.456  
.....  
.....  
.....  
13.21.00.3,28.655,-81.2128

FIG. 13A

Time,Long,Lat,CellNo,SS,

12:41:29,28.6559300,-81.205792000,1353,-124  
12:41:29,28.6559300,-81.205792000,201,-106  
12:41:29,28.6559300,-81.205792000,32,-106  
12:41:29,28.6559300,-81.205792000,321,-76  
12:41:29,28.6559300,-81.205792000,323,-66  
12:41:29,28.6559300,-81.205792000,831,-100  
12:41:30,28.6559260,-81.205580000,323,-66  
12:41:31,28.6559170,-81.205380000,321,-75  
12:41:31,28.6559170,-81.205380000,321,-75  
12:41:31,28.6559170,-81.205380000,323,-64  
12:41:32,28.6559080,-81.205198000,323,-63  
12:41:33,28.6558950,-81.204922000,321,-73  
12:41:33,28.6558950,-81.204922000,323,-62  
12:41:34,28.6558900,-81.204769000,321,-73  
12:41:34,28.6558900,-81.204769000,321,-73  
12:41:34,28.6558900,-81.204769000,322,-98  
12:41:34,28.6558900,-81.204769000,323,-61  
12:41:35,28.6558900,-81.204577000,1353,-124  
12:41:35,28.6558900,-81.204577000,201,-105  
12:41:35,28.6558900,-81.204577000,202,-106  
12:41:35,28.6558900,-81.204577000,32,-105  
12:41:35,28.6558900,-81.204577000,323,-63  
12:41:35,28.6558900,-81.204577000,831,-99  
12:41:37,28.6558970,-81.204219000,321,-73  
12:41:37,28.6558970,-81.204219000,323,-67  
12:41:38,28.6559000,-81.204044000,321,-74  
12:41:38,28.6559000,-81.204044000,323,-67  
12:41:38,28.6559000,-81.204044000,321,-74  
12:41:38,28.6559000,-81.204044000,323,-67  
12:41:40,28.6559020,-81.203683000,1353,-122  
12:41:40,28.6559020,-81.203683000,202,-104  
12:41:40,28.6559020,-81.203683000,32,-105  
12:41:40,28.6559020,-81.203683000,321,-73  
12:41:40,28.6559020,-81.203683000,322,-96  
12:41:41,28.6559070,-81.203457000,321,-72  
12:41:41,28.6559070,-81.203457000,323,-66  
12:41:42,28.6559100,-81.203125000,321,-71  
12:41:42,28.6559100,-81.203125000,323,-66

FIG. 13B

v----- Record # 1: -----v  
 05/10/99 13:22:05 ALM INF 4103 7 32 G TC 457  
 Call Monitor: Call Record has been Written in RAM disk  
 Ph#: (407)9223002 Call clear by MS - mobile clear  
 v----- Record # 2: -----v  
 05/10/99 13:22:04 ALM INF 4113 7 32 G TC 457  
 Call Monitor: Call RSSI value  
 (407)9223002 cell 323 rrssi -77 attn 4 snr 40  
 v----- Record # 3: -----v  
 05/10/99 13:22:04 ALM INF 4117 7 32 G SRC  
 Call Monitor: Adj. cell RSSI values from Scanning Rcvr.  
 (407)9223002 Cell\_id/RSSI: 323 / -73  
 v----- Record # 264: -----v  
 05/10/99 13:21:00 ALM INF 4117 7 20 A SRC  
 Call Monitor: Adj. cell RSSI values from Scanning Rcvr.  
 (407)9223002 Cell\_id/RSSI: 201 / -98  
 v----- Record # 265: -----v  
 05/10/99 13:21:00 ALM INF 4117 7 32 B SRC  
 Call Monitor: Adj. cell RSSI values from Scanning Rcvr.  
 (407)9223002 Cell\_id/RSSI: 322 / -103  
 v----- Record # 266: -----v  
 05/10/99 13:21:00 ALM INF 4117 7 83 A SRC  
 Call Monitor: Adj. cell RSSI values from Scanning Rcvr.  
 (407)9223002 Cell\_id/RSSI: 831 / -96  
 v----- Record # 267: -----v  
 05/10/99 13:21:00 ALM INF 4117 7 32 A SRC  
 Call Monitor: Adj. cell RSSI values from Scanning Rcvr.  
 (407)9223002 Cell\_id/RSSI: 321 / -78  
 v----- Record # 268: -----v  
 05/10/99 13:21:00 ALM INF 4117 7 135 G SRC  
 Call Monitor: Adj. cell RSSI values from Scanning Rcvr.  
 (407)9223002 Cell\_id/RSSI: 1353 / -113  
 v----- Record # 269: -----v  
 05/10/99 13:21:00 ALM INF 4117 7 20 B SRC  
 Call Monitor: Adj. cell RSSI values from Scanning Rcvr.  
 (407)9223002 Cell\_id/RSSI: 202 / -100  
 v----- Record # 270: -----v  
 05/10/99 13:21:00 ALM INF 4113 7 32 G TC 457  
 Call Monitor: Call RSSI value  
 (407)9223002 cell 323 rrssi -72 attn 4 snr 40  
 v----- Record # 271: -----v  
 05/10/99 13:21:00 ALM INF 4117 7 32 G SRC  
 Call Monitor: Adj. cell RSSI values from Scanning Rcvr.  
 (407)9223002 Cell\_id/RSSI: 323 / -71  
 v----- Record # 272: -----v  
 05/10/99 13:21:00 ALM INF 4117 7 3 B SRC  
 Call Monitor: Adj. cell RSSI values from Scanning Rcvr.  
 (407)9223002 Cell\_id/RSSI: 32 / -115

FIG. 14



